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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. K-1976DIV 10/611,882 07/03/2003 Tomonori Kojima 4187 EXAMINER 32628 09/12/2005 HAUPTMAN KANESAKA BERNER PATENT AGENTS PHAN, THIEM D SUITE 300, 1700 DIAGONAL RD PAPER NUMBER ART UNIT ALEXANDRIA, VA 22314-2848 3729

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>\(\ell\)</i>
Office Action Summary	Application No.	Applicant(s)
	10/611,882	KOJIMA ET AL.
	Examiner	Art Unit
	Tim Phan	3729
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a rept will apply and will expire SIX (6) MONTH c, cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this communication. IDONED (35 U.S.C. § 133).
Status		•
1)⊠ Responsive to communication(s) filed on 30 O	October 2003.	
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
Application Papers		
9) The specification is objected to by the Examine	er.	
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) ☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached (Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/845,185. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Mail Date ormal Patent Application (PTO-152)

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Onda (US 4,206,379).

As applied to claim 1, Onda teaches a process for constructing rotors for electromechanical transducers, comprising:

- forming a permanent magnet (Fig. 5, 12) in a ring-shape,
- concentrically arranging a rotating shaft (Fig. 4, 10; col. 4, lines 3-5) and the permanent magnet in a mold to have a space therebetween, and
- pouring a rubber material or resin (Fig. 3, 14; col. 3, line 22) in a fluid state into the space between the permanent magnet and the rotating shaft to vulcanize and mold a cushioning member having predetermined hardness so that the permanent magnet (Fig. 4, 12) and the rotating shaft (Fig. 4, 10) are integrally coupled through the cushioning member (Fig. 4, 14).

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As applied to claim 6, Onda teaches that the cushioning member is formed to have a plurality of recesses (Fig. 2, 18' & 20') on opposite surfaces thereof.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Onda in view of Itaya (US 5,500,994) or vice versa.

As applied to claim 2, Onda teaches a process for constructing rotors for electromechanical transducers, which reads on applicants' claimed invention.

Itaya teaches a method of manufacturing a rotor with mold plastic magnet (Fig. 4, 32; Abstract) encasing a mold plastic body (Fig. 4, 31) with their molding temperature quite similar (Col. 3, lines 34-52) in order to have a light rotor body weight.

It would be obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings by applying the mold plastic magnet encasing a mold plastic body,

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as taught by Itaya, to the molding process of Onda for constructing a rotor in order to have a light rotor body weight.

As applied to claim 3, Onda teaches a process for constructing rotors for electromechanical transducers, which reads on applicants' claimed invention.

Itaya teaches a method of manufacturing a rotor with the application of adhesive, as old art (Col. 1, lines 22-26; col. 2, lines 10 & 11) between the plastic magnet and the mold plastic body in order to reinforce a double structure.

It would be obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings by applying the adhesive, as taught by Itaya, to the molding process of Onda for constructing a rotor in order to reinforce a double structure.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Onda in view of Back (US 5,930,071) or vice versa.

Onda teaches a process for constructing rotors for electro-mechanical transducers, which reads on applicants' claimed invention.

Back teaches a process of dampening vibration of rotor disk drive by a post-cure bake (Col. 13, lines 14-22) of the molded rubber-like material in order to improve the mechanical properties of the elastomer.

It would be obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings by applying the post-cure bake process, as taught by Back and not Art Unit: 3729

its general structure, to the molding process of Onda for constructing a rotor in order to improve the mechanical properties of the rubber, light rotor body.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Onda in view of Higuchi et al (EP0633647) or vice versa.

As applied to claim 2, Onda teaches a process for constructing rotors for electromechanical transducers, which reads on applicants' claimed invention.

Higuchi et al teach a process of manufacturing a rotor with vent holes (Fig. 1, 7a, Abstract) in order to reduce the temperature throughout the motor body.

It would be obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings by applying the vent holes, as taught by Higuchi et al, to the molding process of Onda for constructing a rotor in order to reduce the temperature throughout the motor body.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Phan whose telephone number is 571-272-4568. The

examiner can normally be reached on M - F, 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. DEXTER TUGBANG PRIMARY EXAMINER

Tim Phan Examiner Art Unit 3729

tp September 3, 2005